Amendment and Response

Serial No.: 10/734,682 Confirmation No.: 1223 Filed: 12 December 2003

For: SAMPLE MIXING ON A MICROFLUIDIC DEVICE

## **Amendment to the Specification**

Please amend the paragraph beginning on line 30 of page 10 as shown below.

FIGS. 7 & 8 depict another embodiment of a process chamber 240 and associated mixing structure, with FIG. 8 being a cross-sectional view taken along line 8-8 in FIG. 7. In this embodiment, the mixing structure includes two mixing chambers 260a and 260b (collectively referred to herein as mixing chambers 260). The mixing chambers 260 are located above the process chamber 240 such that at least a portion of each of the process chambers 260 is located between the process chamber 240 and one of the major sides 212, 219 of the sample processing device in which the process chamber 240 is located. As such, the mixing chambers 260 may be described as having portions that are located within the footprint of the process chamber 240, where the footprint of the process chamber 240 is defined as the projection of the process chamber 240 on a major side 219 of the sample processing device along an axis that is normal to the major side 219. Although not depicted, it may be preferred that the mixing chamber or mixing chambers are located completely within the footprint of the process chamber 240.